



# MMVCA Newsletter

MISSOURI MOSQUITO AND VECTOR CONTROL ASSOCIATION

FEBRUARY 19, 2009

VOLUME 1, NUMBER 3

## Disclaimer

This newsletter is presented by the Missouri Mosquito and Vector Control Association. Missouri Dept of Health and Senior Services is not responsible for the articles in this newsletter, however, reports and statistics are used by MDHSS and other government associations.

## 2009 Officers:

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## PRESIDENTS MESSAGE: Joan Bradford



Dear Members,

It's interesting to understand some history regarding vector borne disease and its impact on public health. St. Louis encephalitis (SLE), commonly referred to as sleeping sickness at the time, killed over 1600 people in St. Louis County in the epidemics of 1933 and 1937. Kansas City and St. Joseph experienced 181 and 45 deaths respectively in 1933. *Culex pipiens*, the vector for SLE, thrives in drought conditions due to the increasing concentration of organic matter in available water. During those epidemic years, weather conditions were exceptionally dry. They didn't know it at the time, but researchers eventually discovered mosquitoes were the vector.

Another killer was malaria-- prevalent in Missouri as recently as the 1940's. Pioneers of the 1800's westward migration died of many causes with malaria being a major deterrent to health and well being. Scarcely a family was spared. Malaria was particularly prevalent in swamp areas which weren't habitable until settlers drained them. Draining this landform, rich in wildlife, transformed it into some of the richest farmland in the world.

Over time, the draining of swamps eliminated the breeding grounds for the *Anopheles* mosquito, the malaria carrier. That and improved sanitation in urban areas diminished mosquito populations. In fact, currently the only cases of malaria in the U. S. are imported by overseas travelers. An occasional outbreak of St. Louis Encephalitis occurs in scattered areas in the U.S. but nothing like past epidemics.

However, malaria is endemic in Africa and other parts of the world. In Africa, 3000 children a day die from malaria. Malaria takes its toll in human life and in the entire economic well being of affected areas. While that used to be the case in the United States, malaria is still a major deterrent to socio-economic well-being in Africa and other parts of the world. Public health resources are drained in addressing a disease that is preventable. The World Health Organization in its 2008 World Health Day report declares that climate change will contribute to an increase in vector borne diseases. Malaria and dengue fever are projected to be the biggest problems, particularly in developing countries.

What about vector borne diseases here and now in the United States and Missouri? We had human WNV cases and plenty of WNV+ mosquito pools in 2008.

Early in the season, we trapped high counts of *Culex* mosquitoes in St. Louis County. The periodic heavy rains that followed flushed *Culex* larva from their breeding sites. We still trapped adult *Culex* and had WNV+ pools but without the flushing action, and without mosquito control actions, there would have been a lot more.

Joan Bradford, President  
MMVCA

What is a  
mosquito's  
favorite  
sport?

Skin  
Diving!

For questions or  
additions, to MMVCA  
newsletter, please  
contact:

Natasha Sullivan  
Public Relations:  
[sullin@lpha.mopublic.org](mailto:sullin@lpha.mopublic.org)

## **ANNOUNCEMENT**

### **NOMINATIONS NEEDED FOR 2009-10 OFFICERS AND BOARD MEMBERS**

**Positions Available: Treasurer  
President**

*\*these terms are for two years.*

**Board Members: 3 vacant spots left.**

*\*terms are: 1 for 1 year and 2 for two years.*

**Please Contact Gerry Worley at:  
[GRW@GoColumbiaMo.com](mailto:GRW@GoColumbiaMo.com).  
For Nominations.**

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## Web links

American Mosquito Association:  
[www.mosquito.org](http://www.mosquito.org).  
Missouri Dept of Health and Senior Services.  
[www.dhss.mo.gov](http://www.dhss.mo.gov).  
Missouri Mosquito and Vector Control Assoc.  
[www.mmvca.net](http://www.mmvca.net).  
Center for Disease Control. [www.cdc.gov](http://www.cdc.gov).  
World Health Organization.  
[www.who.ch/](http://www.who.ch/).  
Entomological Society of America.  
[www.entsoc.org](http://www.entsoc.org)

## MISSOURI MOSQUITO AND VECTOR CONTROL ASSOC ANNUAL CONFERENCE

FRIDAY MARCH 20<sup>TH</sup>, 2009  
8.45AM-3:15PM  
COLUMBIA BOONE CO HEALTH DEPT  
1005 WEST WORLEY  
COLUMBIA, MO

- 8:45am: **Registration-Continental Breakfast and Coffee**
- 9:30am: **Welcome and Presidents Message**-Joan Bradford
- 9:40am: **Disasters and Mosquito Control Throughout the U.S.** – Janet McAllister  
PhD-CDC
- 10:30am: **Break**
- 10:45am: **Low Cost and Effective Ways Health Departments Can Conduct Mosquito Control (Barrier Spraying and Other Techniques).**
- Neal Patterson- St Louis Co Health
  - Jason Trumbetta- Adapco
  - Steve Crawford- Jefferson Co Health
- 11:30am: **Lunch and Business Meeting**  
\*Vendor Sponsor Remarks
- 12:30pm: **Tire Program Update** – Dan Fester, Manager-Mo Dept of Natural Resources
- 12:40pm: **Pesticide Toxicity-Effects of Exposure Levels Minimizing Pesticide Exposure (PPE, Storage, andHousekeeping)**
- Richard Houseman PhD, Univ of Mo.
- 1:30pm: **Break**
- 1:45pm: **WNV and Mosquitoes in Missouri** – Karen Yates MDHSS
- 2:00pm: **Tick Borne Diseases in Missouri** – Richard Housman, PhD, Univ of Mo
- 2:15pm: **Bed Bugs and What To Do About Them** – John Atkinson- Sonequity Pest Management, Operations Mgr.
- 3:15pm: **Door Prizes and Adjourn**

**Thank You to our corporate sponsors for breakfast, lunch and snacks!**

**Adapco  
Clarke  
B & G Chemical Co**

**To Register for the Conference please email**

**[sullin@lpha.mopublic.org](mailto:sullin@lpha.mopublic.org).**  
**Please include name, organization and email.**

**\*This is a free conference, however to attend, dues for 2009 must be paid.**

A  
mosquito  
can  
detect a  
moving  
target at  
18 ft  
away

The  
average  
life span  
of a  
female  
mosquito  
is 3 to  
100 days.  
The male  
lives 10 to  
20 days.

## Missouri Mosquito & Vector Control Association

### Dues Notice

Annual Payment of Dues for the Year 2009

Regular Membership: \_\_\_\_\_ \$10.00

Corporate Membership: \_\_\_\_\_ \$50.00

**NAME:** \_\_\_\_\_

**ASSOCIATION:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**PHONE:** \_\_\_\_\_

Make checks payable to: **Missouri Mosquito and Vector Control  
Association**

And mail to:

**MMVCA**

**Neal Patterson, Treasurer**

**77 Hunter Avenue**

**Ladue, MO 63124-2008**